

driving energy source for the vehicle. As described earlier, the coil module means 191-20, 195-30 will be arranged to fit the suitable mechanical design.

The plurality alternative embodiments of the start up mechanism should not be a 5 limitation to the present invention, but only serve as a similar device comprising part of this invention. The details of the mechanical or electrical design can be dependent on the purpose of the vehicle. The plurality alternative embodiments should not be a limitation to the present invention, but only serve as a similar device comprising part of this invention.

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Claims :

1. A flat induction motor comprising:

a rotor comprising a plurality of metal parts, said metal parts are arranged as a 15 circular shape or a disc shape, onto which a plurality of holes or slots are arranged in a circular shape

a plurality of coil means arranged along a circular shape and the said plurality coil means are arranged as a stationary portion of said flat induction motor

energy controlling means that will detect the relative position of the coil means and 20 the metal parts of the rotor and current is passed through said coil means when the detecting device sense the suitable position of said metal parts relative to the said coil means.

2. The flat induction motor of claim 1, which can be arranged as a portion of a driving 25 device of a transportation apparatus, wherein said flat metal rotor portion can be arranged as a part of the driving device; the coil means can be arranged so that it is positioned along the side of the metal parts of said rotor, said coil means can be arranged near in a circular or partial circular style, said coil means can be arranged along or along portion of the peripheral of the motor, or said coil means can be arranged

as a part of a device that fix the position of the motor system.

3. The flat induction motor of claim 1, which can be arranged as a portion of a wheel system of a human powered apparatus , wherein said flat metal rotor portion can be
5 arranged as a part of the spoke or as a part of the hub or as a part of the rim of said wheel, the coil means can be arranged so that it is positioned along the side of the metal parts of said rotor, said coil means can be arranged near the hub in a circular or partial circular style, said coil means can be arranged along or along portion of the peripheral of the rim that forms the wheel, or said coil means can be a part of a mechanism that fix the
10 position of the wheel system.

4. The flat induction motor of claim 1, which can be arranged to be a part of a brake system of a wheel system of the ICE or electrical or hybrid or fuel cell vehicle or the like transporting apparatus, said rotor can be arranged as a part of a metal brake disc,
15 the coil means can be arranged so that it can be positioned along the side of the metal parts of said rotor, said coil means and rotor can be arranged as part of a dynamic brake system means, or said coil means can be a part of a mechanism that fix the position of the wheel system.

20 5. A flat induction motor comprising :

a rotor comprising a metal plate being folded into a circular shape , and a plurality holes or slots can be arranged along the circular path of the metal plate,
a plurality of coil of means arranged along said circular shape and said plurality of coil means arranged as a stationary portion of said flat induction motor, and
25 energy controlling means that detect the relative position of the coil and the metal plate of the rotor and current is pulsed through said coil when the detecting device sense the suitable position of the flat metal parts relative to the said coil means..

6. The flat induction motor of claim 5, which can be arranged as a portion of a driving

device of a transportation apparatus, wherein said flat metal rotor portion is arranged as a part of the driving device; the coil means can be arranged so that it is positioned along the side of the metal parts of said rotor, said coil means can be arranged near in a circular or partial circular style, said coil means can be arranged along or along portion 5 of the peripheral of the motor, or said coil means can be arranged as a part of a device that fix the position of the motor system.

7. The flat induction motor of claim 5, which can be arranged as a portion of a wheel system of a human powered apparatus , wherein said flat metal rotor portion can be 10 arranged as a part of the spoke or as a part of the hub or as a part of the rim of said wheel, the coil means can be arranged so that it can be positioned along the side of the metal portion of the said rotor, said coil means can be arranged near the hub in a circular or partial circular style, said coil means can be arranged along or along portion of the peripheral of the rim that forms the wheel, or said coil means can be a part of a 15 mechanism that fix the position of the wheel system.

8. The flat induction motor of claim 5, which can be arranged to be a part of a brake system of a wheel system of the ICE or electrical or hybrid or fuel cell vehicle or the like transporting apparatus, said rotor can be arranged as a part of a metal brake disc, 20 the coil means can be arranged so that it can be positioned along the side of the metal portion of said rotor, said coil means and rotor can be arranged as a part of a dynamic brake system means, or said coil means can be a part of a mechanism that fix the position of the wheel system.

25 9. A flat induction motor comprising :

a rotor comprising a flat metal plate being arranged into a ring shape , a plurality holes or slots or the like can be arranged along the circular path of the flat metal a plurality coil means arranged along said circular shape and the said plurality coil means arranged as a stationary portion of said flat induction motor

energy controlling means that will detect the relative position of the coil means and the flat metal plate of the rotor and current is pulsed through said coil means when the energy controlling means sense the suitable position of the flat metal plate relative to the said coil means..

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10. The flat induction motor of claim 9, which can be arranged as a portion of a driving device of a transportation apparatus, wherein said flat metal rotor portion is arranged as a part of the driving device; the coil means can be arranged so that it is positioned along the side of the metal parts of said rotor, said coil means can be arranged near in a 10 circular or partial circular style, said coil means can be arranged along or along portion of the peripheral of the motor, or said coil means can be arranged as a part of a device that fix the position of the motor system.

11. The flat induction motor of claim 9, which can be arranged as a portion of a wheel
15 system of a human powered apparatus , said flat metal rotor portion can be arranged as
a part of the spoke or as a part of the hub or as a part of the rim of said wheel, wherein
the coil means can be arranged so that it can be positioned along the side of the metal
portion of the said rotor, said coil means can be arranged near the hub in a circular or
partial circular style, said coil means can be arranged along or along portion of the
20 peripheral of the rim that forms the wheel, or said coil means can be a part of a
mechanism that fix the position of the wheel system.

12. The flat induction motor of claim 9, which can be arranged to be a part of a brake system of a wheel system of the ICE or electrical or hybrid or fuel cell vehicle or the 25 like transporting apparatus, said rotor can be arranged as a part of a metal brake disc, the coil means can be arranged so that it can be position along the side of the metal portion of the said rotor, said coil means and rotor can be arranged as a part of a dynamic brake system means, or said coil means can be arranged as a part of a mechanism that fix the position of the wheel system.